

ABSTRACT

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An absorbent material having substantially improved structural stability in the dry and wet states. The absorbent materials are significantly less susceptible to handling losses of absorbent gelling particles during manufacturing operations. The absorbent material also is not subject to shifting of the absorbent gelling particles during or after swelling by fluids. The absorbent material comprises absorbent gelling particles comprising (a) a water-insoluble absorbent hydrogel-forming polymer; (b) a polycationic polymer bonded to the absorbent gelling particles at the surface thereof; (c) glue microfibers dispersed in the absorbent gelling particles; and (d) a carrier layer bonded to the absorbent gelling particles through the glue microfibers. The invention further relates to a method of making the absorbent materials, and the absorbent articles comprising the absorbent materials.